Characteristics Summary

BOMBER (SUPersonic) .............. B-70

Valkyrie

Wing Area .................. 6298 sq ft
Length ....................... 185.8 ft
Span .......................... 105.0 ft
Height ........................ 30.7 ft

AVAILABILITY

Number available
ACTIVE RESERVE TOTAL

PROCUREMENT
Number to be delivered in fiscal years

STATUS

1. Design Initiated: Nov 55
2. Mock-up: Mar 59
3. First Flight: Jan 62 (est)
4. First Flight XB-70: Dec 62 (est)

Navy Equivalent: None

Mfrs' Model: NA-239

POWER PLANT

(6) J93-GE-3
General Electric
S.L.S. LB - RPM - MIN
Max: *29,500 - 6825 - 5
Mil: 20,900 - 6825 - 30
Nor: 18,600 - 6825 - Cont
*With afterburner

FEATURES

Crew ................. 4
Canard configuration
Air frame constructed from Steel and Titanium
SUB-SYSTEMS
Bombing-Nav. & Missile Guidance
Flight control
Defensive Mission & Traffic control
JP-6 Fuel

Max fuel cap: 51,897 gal

ARMAMENT

No Guns:
BOMBS:
Nr Special Stores
1* Class A .......... 25,000
2 Class B .......... 20,000
1* Class B(FUFO) .. 15,000
2 Class C(FUFO) .. 17,000
4 Class D .......... 9000
Max Bomb Load .... 25,000 Alternate Loadings

2 ASM's external + 1 class B
2 ASM's external + 4 class D
*Space provisions only

1 DEC 59

SECRET

B-70
(NON-REFUELED)
**Characteristics Summary Basic Mission**

**B-70** (NON-REFUELED)

**Performance**

<table>
<thead>
<tr>
<th>COMBAT RANGE</th>
<th>TAKE-OFF</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>5309 naut mi</td>
<td>ground run</td>
<td>CRUISE 1724 knots average for cruise</td>
</tr>
<tr>
<td>in 3.18 hours</td>
<td>7680 ft no assist</td>
<td>BASIC 1089 knots at 35,000 ft alt, Mil power</td>
</tr>
<tr>
<td></td>
<td>assisted</td>
<td></td>
</tr>
</tbody>
</table>

**Ferry Range**

<table>
<thead>
<tr>
<th>5461 naut mi</th>
<th>over 50 ft height</th>
</tr>
</thead>
<tbody>
<tr>
<td>in 3.27 hours</td>
<td>10,600 ft no assist</td>
</tr>
<tr>
<td></td>
<td>assisted</td>
</tr>
</tbody>
</table>

**Climb**

10,800 fpsm 
sea level, take-off weight 
maximum power

**Combat Ceiling**

83,300 ft 
500 fpsm, combat weight 
maximum power

**Load**

Bomb: 10,900 lb  
Fuel: 51,897 gal

**Weights**

- Empty: 188,326 lb  
- Combat: 272,236 lb  
- Take-off: 554,609 lb

**Bomb Release Trade**

- 554,609 lb T.O.WT  
- 347,710 lb Fuel

**Notes**

1. Performance Basis:
   - (a) Estimated (Not Substantiated by WADD)
   - (b) MIL-C-5011A Ground Rules

2. Revision Basis: Initial Issue
### Performance

<table>
<thead>
<tr>
<th>Characteristics Summary Basic Mission</th>
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</table>

**B-70 (REFUELED)**

- **6626 N.Mi.**
- **65,000 FT**
- **74,900 FT**
- **25,000 FT**

**High Altitude Bomber (Supersonic)**

<table>
<thead>
<tr>
<th>Performance</th>
<th>Take-off</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Combat Range</strong></td>
<td><strong>7826 naut mi</strong> in 6.73 hours</td>
<td><strong>CRUISE</strong> 1721 knots average for cruise</td>
</tr>
<tr>
<td><strong>Ferry Range</strong></td>
<td><strong>NA naut mi</strong> in NA hours</td>
<td><strong>BASIC</strong> 1089 knots at 35,000 ft alt at mil power</td>
</tr>
<tr>
<td><strong>Climb</strong></td>
<td>5800 fps sea level, take-off weight military power</td>
<td><strong>MAX</strong> 1731 knots at 85,100 ft alt, max power</td>
</tr>
<tr>
<td><strong>Bomb Release Trade</strong></td>
<td></td>
<td><strong>DATA NOT AVAILABLE</strong></td>
</tr>
</tbody>
</table>

**Load**
- Bombs: 10,900 lb
- Fuel: 51,897 gal

**Weights**
- Empty: 188,326 lb
- Combat: 240,892 lb
- Take-off: 554,609 lb

**Notes**
1. Performance Basis:
   - (a) Estimated (not substantiated by WADD)
   - (b) SAC Ground rules (Non-refueled range is 6522 n. mi)
2. Revision Basis: Initial Issue